

3419² \$/139/61/000/006/011/023 E021/E406

M. | LVO AUTHORS:

Yelsukova, T.F., Panin, V.Ye.

TITLE:

The equivalence of the influence of temperature and the deformation rate on the resistance to deformation in the straining of copper

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika. no.6, 1961, 81-86

The aim of the work was to determine the energy of TEXT: activation of deformation U of copper under tensile conditions. Wire samples of 0.5 mm diameter and 50 mm working length, made from Strain rates used were electrolytic copper Ml, were used. 0.135%/min, 1.65%/min and 23.2%/min and the temperature range Special experiments were carried out to prove was 130 to 230°C. that the cold-worked samples showed no recovery up to 230°C. Specimens were tested in the annealed state and after cold Curves of true stress against working at room temperature to 24%. strain were drawn for the different conditions. From the results, the energy of activation was calculated and found to be 29.9 kcal/ mol compared with 27.7 kcal/mol found under conditions of Card 1/2

34192

5/139/61/000/006/011/023 E021/E406

The equivalence of the influence ...

compression (Ref.8: V.F.Sukhovarov. Izv. vyzov. MVO SSSR, Fizika, The value of the energy of activation was found not v.5, 1959). to depend on whether the tests conditions allowed the removal of the preliminary cold work in the course of the secondary The values of the energy of activation for deformation or not. both tensile and compression conditions are close to the value for the energy of activation for migration of vacancies in copper. There are 3 figures and 30 references: 9 Soviet-bloc and The four most recent references to English 21 non-Soviet-bloc. language publications read as follows: Ref.16: T. Broom, R. Ham. Vacancies and other point defects in metals and alloys, L. 1958; Ref. 25: G.B. Craig, B. Chalmers, Canad. J. Phys. v. 35, no.1, 1957, 38-47; Ref.28: O.D.Sherby, J.L.Lytton, J.E.Dorn. Acta met., v.5, no.4, 1957; Ref.29: P.R.Landon, J.L.Lytton, L.A.Sheppard and J.E.Dorn. Trans. ASM, v.51, 1959, 900.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

gosuniversitete imeni V.V.Kuybysheva

(The Siberian Physicotechnical Institute of Tomsk

University imeni V.V.Kuybyshev)

SUBMITTED: Card 2/2

September 17, 1960

K

BOL'SHANINA, M.A.; YELSUKOVA, T.F.

Temperature and velocity dependence of creep strains in lead. Izv. vys.ucheb.zav.;fiz.no.2:157-166 '63.

(MIRA 16:5)

1. Sibirskiy fiziko-teknicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva.

(Creep of lead)

BOL'SHANINA, M.A.; YELSUKOVA, T.F.

Proparation of lead alloy samples for the metallographic analysis. Zav.lab. 30 no.3:315 '64. (MIRA 17:4)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete.

MORGUHOV, N.I., kand.sel'skokhozyaystvennykh nauk; Prinimali uchastiye:
PAVLOV, V.N.; YELSUKOVA, Z.M.

Establishing artificial hayfields and permanent pastures in the repeatedly water-logged polders of Kaliningrad Province. Nauch. trudy KOMS no.1:165-174 '59. (MIRA 15:1)

(Kaliningrad Province--Pastures and meadows)

Modernization of the oil system of the diesel train motor.

Blek.i tepl.tiaga 3 no.11:28-29 N '59. (MIRA 13:3)

1. Starshiy inzhener sluzhby lokomotivnogo khozyaystva
Oktyabr'skoy dorogi.
(Diesel locomotives--Lubrication)

SARIN, V.I., insh.; YEISUKOV, V.A., insh.

VMEl shunting diesel locomotive. Elek.i tepl.tisga 4 no.2:29-35 (MIRA 13:6)

(Diesel locomotives)

CIA-RDP86-00513R001962620002-3 "APPROVED FOR RELEASE: 03/15/2001

YELSUKOVA

SOV/137-58-10-21687

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 176 (USSR)

AUTHORS: Bol'shanina, M.A., Yelsukova, T.F., Kondrat'yev, P.A.

Employment of Tellurium in the Manufacture of Electrical TITLE: Cable Sheathing (Primeneniye tellura v kabel'noy promysh-

lennosti)

PERIODICAL: Dokl. 7-y Nauchn. konferentsii posvyashch. 40-letiyu Veli-

koy Oktyabr'sk. sots. revolyutsii, Nr 2. Tomsk, Tomskiy

un-t, 1957, pp 67-68

ABSTRACT: The effect of adding Te to Pb alloys employed in manu-

facture of sheathing for electrical cables was studied. An addition of 0.02-0.05% Te to the alloy Pb+0.5 Sb improves the technological properties of the latter and increases its σ_W value. The addition of Te favors the progress of structural changes which occur in the alloy and improves its heat-resistant properties (up to 200°C). Mechanical properties of the alloy, particularly the σ_W , are improved as the Te content is

increased. It is recommended that the Te be introduced in the

form of an Sb-Te alloy. 1. Tellurium-Applications 2. Electric cables --Shielding 3. Lend-tellurium alloys---Properties Card 1/1

P.N.

VASIL'YEV, L. I.; YELSUKOVA, T. F.; BOL'SHANINA, M. A., and KONDRAT'YEV, P. A.

"Vibrational Stability of Certain Lead Alloys Used for Cable Sheathing" Part 1. p. 234-241, in the book Research in the Physics of Solids, Moscow, Izd-vo AN SSSR, 1957. 277 p. Ed. Bol'shanina, M. A.; Tomsk Universitet, Siberskiy & fiziko-tekhnicheskiy institut.

Personalities: Samoylov, V. N.; Obolentsev, A. V.; and Vasil'yev, L. I., Materials studied: a total of 13 lead alloys: binary alloys of lead with antimony, tin, cadmium, bismuth, and tellurium; ternary alloys of lead-antimony-tin, lead-antimony-tellurium, lead-antimony-arsenic, lead-antimony-sodium, and lead-antimony-selenium; quaternary alloys of lead-antimony-tin-copper and lead-tin-bismuth-arsenic. Research was done from specifications of the Tomkabel' plant with the participation of engineers of this plant. There are 4 figures, 3 tables, and 4 Soviet references.

This collection of articles is meant for metallurgicall physicists and for engineers of the metal-working industry. This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. Problems of cutting, abrasion, friction, and wear of solid mateirials (metals) are discussed.

BOL'SHANINA, M. A.; YELSUKOVA, T. F.; KONDRAT'YEV, P. A., and FOMINA, M. A.

'Vibrational Stability of Gertain Lead Alloys USed for Cable Sheathing, Part 2. p. 242-261, in the book Research in the Physics of Solids, Moscow, Izd-vo AN SSSR, 1957. 277 p. Ed. Bol'shanina, M. A.; Tomsk Universitet, Siberskiy fiziko-

Personalities: Zakharov, P. A.; Pereslegin, V. A.; Dnestrovkskiy, N. Z., and Shpagin, A. I. Materials studied included 19 differenct lead alloys: Binary alloys of lead-antimony, lead-cadmium, lead-tin, lead-bismuth, and lead-tellurium; ternary alloys of lead-antimony-tin, lead-antimony-sodium, lead-antimony-arsenic, lead-antimony-tellurium, and lead-antimony selenium; quaternary alloys of lead-antimony-tin-copper and lead-antimony-bismuth-arsenic. There are 17 figures, 4 tables, and 12 references, 3 of which are Soviet, 1 German, and 8 in English.

This collection of articles is meant for metallurgical physicists and for engineers of the metal-working industry. This book contains results of researh in the field of failure and plastic deformations of materials, mainly of metals. Problems of cutting, abrasion, friction, and wear of solid materials (metals) are discussed.

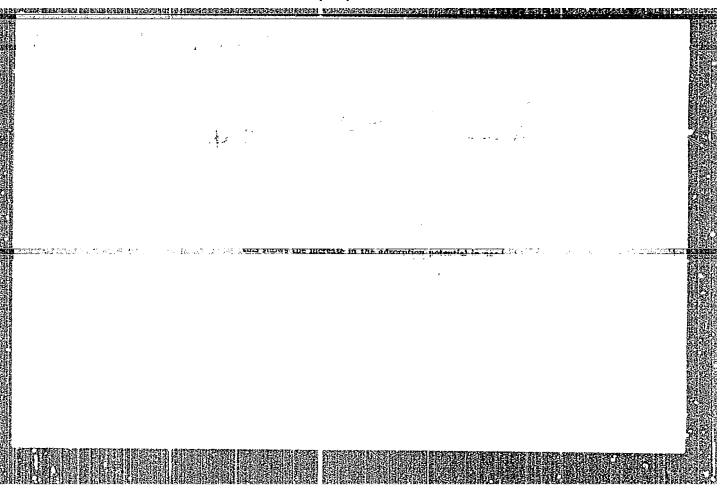
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YELTANSKIY, N.N., starshiy inzh.

Measures which helped to increase the reliability of the armature bearings of ChS1 electric locomotive. Elek.i tepl. tiaga 6 no.2:10-12 F '62. (MIRA 15:2)

1. Lokomotivnyy otdel Moskovsko-Kurskogo otdeleniya Moskovskoy dorogi.

(Electric locomotives-Safety devices)



SHEVCHENKO, F.I.; AKHTAMOV, M.A.; ISHCHENKO, G.N.; YEL! TEKOA, N.I.

Some results of the study of Escherichia coli with relation to problems in the etiology of diarrhea in infants. Pediatria 38 no.1:17-23 '60. (MIRA 13:10) (DIARRHEA) (ESCHERICHIA COLI)

I THE PERSON OF THE PROPERTY O

Elterman, E.M., Candidate of Technical Sciences. 400

TITLE:

The rational use of ovens for enamelling wire. (Ratsionalnoye ispolzovaniye pechey dlya emalirovaniya provoloki.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry) 1957, Vol. 28, No. 4, pp. 68 - 69 (U.S.S.R.)

ABSTRACT:

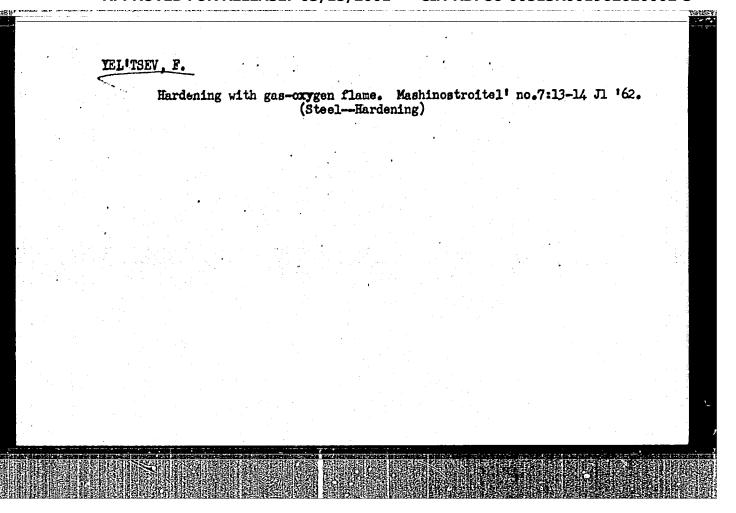
The most common type of enamelling ovens in Soviet factories are vertical ovens designed by the All-Union Scientific Research Institute for the Protection of Labour of the All-Union Central Council of Trades Unions in Leningrad. This article gives information about the design of these ovens.

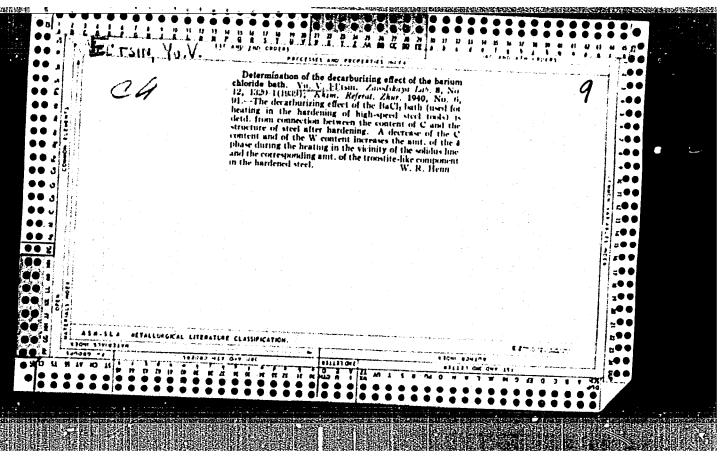
The oven consists of a vertical closed shaft from 0.7 to 3.5 metres high containing electric heaters. The upper and lower ends of the furnace contain long slots 0.5 to 30.0 mm wide, depending on the diameter of the wire being enamelled. The area of the slot is usually 6 - 7 percent of the cross-sectional area of the shaft. There is a continuous flow of air through the shaft caused by convection which removes a considerable quantity of heat. This air contains solvent vapours and so has to be removed from the shop by a local extraction fan, A formula is given for the rate of flow of air into the slot at the bottom of the furnace. The quantity of air passing, other things being equal, is a function of the height of the furnace and the mean temperature in it. A graph is given of the relationship between the rate of flow of air and the height of the furnace for a mean temperature of 300 °C. A further graph is given of relationships between the rate of flow A further graph is given of relationships between

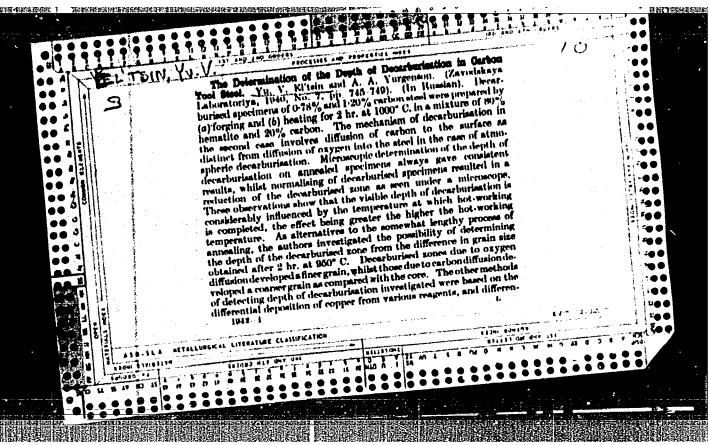
The rational use of ovens for enamelling wire. (Cont.)

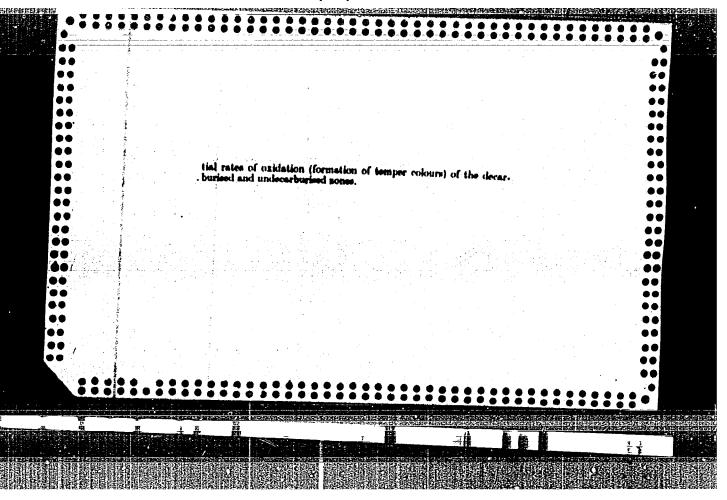
the rate of flow of air through the lower slot and the mean temperature for furnaces of different height. In order to check the accuracy of the formula determinations were made of the actual quantities of air passing through the furnaces at a particular factory. The results of over 100 tests are plotted on the same graph as the theoretical curve and show a good agreement. It is advisable to reduce the amount of air passing through the ovens, both to reduce the amount of air that has to be handled by the extraction fan and to reduce the loss of heat into the shop. This can be done by the provision of dampers.

2 figures, no literature references.

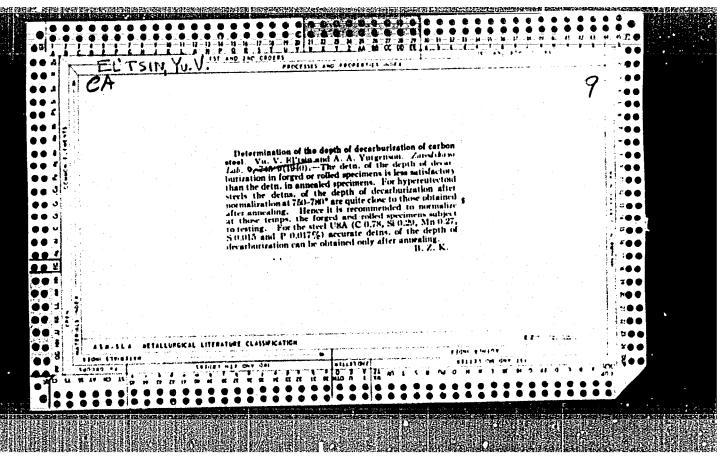








APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962620002-3"



KOZHFUROV, P. I.; YLITSIN, Yu. V.; OAVRILOV, V. H.

"Cast Cutter Holders," (From experience at the Kirov Plant), 16. No. 3, 1945.

BR-52059019

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USSR/Miscellaneous - Temperature Measurement

Card

: 1/1

Authors

: Eltsin, Yu. V. and Antonova, V. F.

Title

: About temperature correction of ardometer readings.

Periodical

Stan i instr, 3, 36 - 37, Mar 1954

Abstract

A new method of temperature correction of ardometer readings, which permits evaluation of temperature corrections within 5°C. is described. This method consists of the visual observation of noticeably changing granularity in cross sections of steel rods of small diameter and comparing their appearance with that of a machined article. A table of characteristics of the cross sections of the steel rods of "R18"

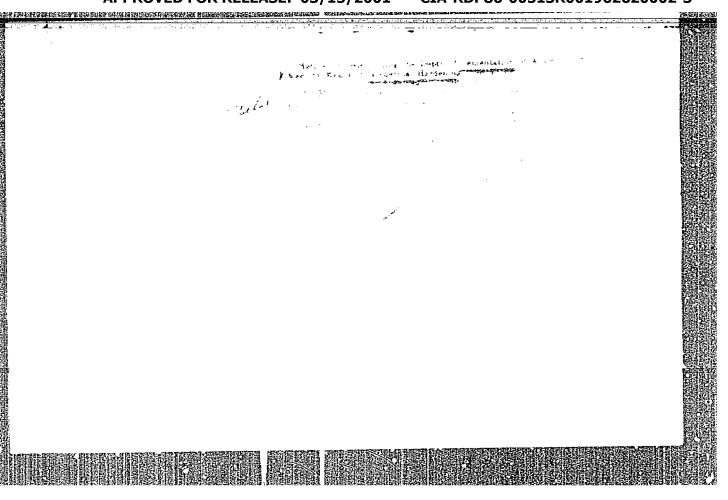
steel" is given.

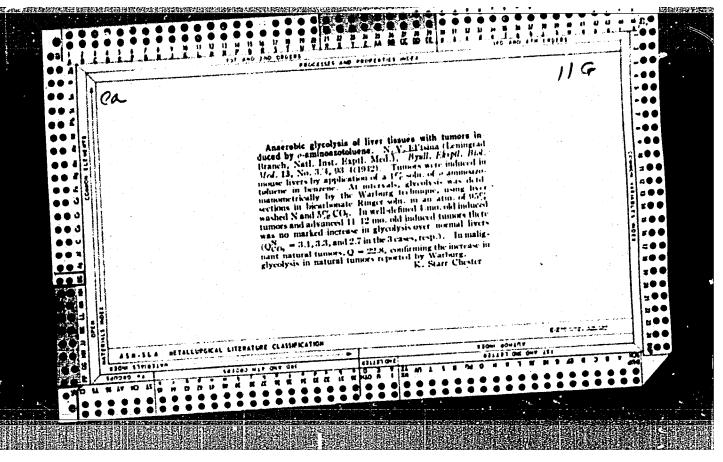
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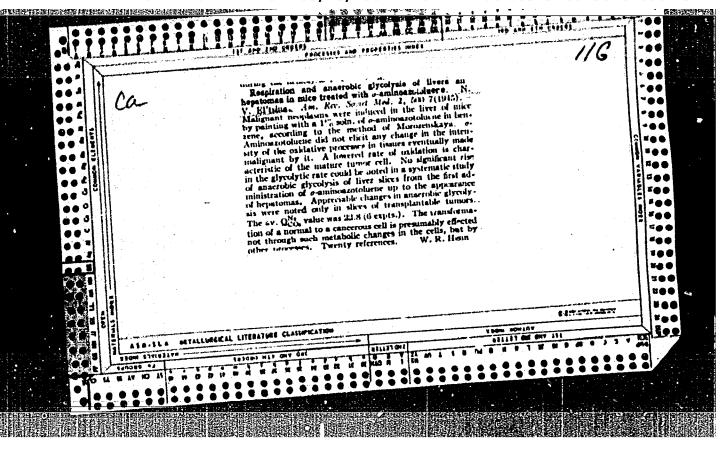
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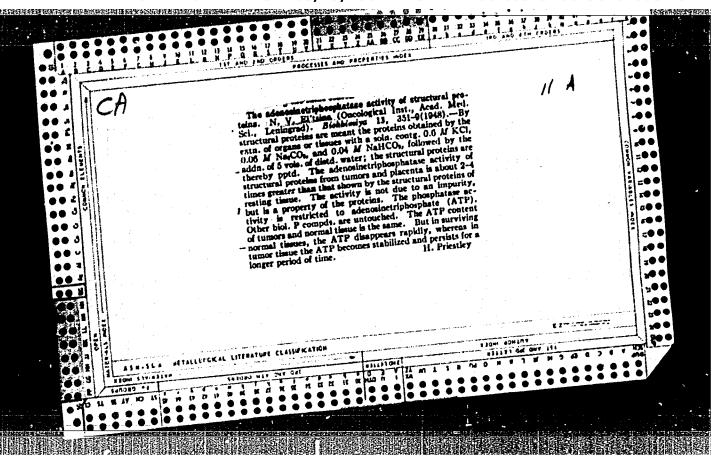
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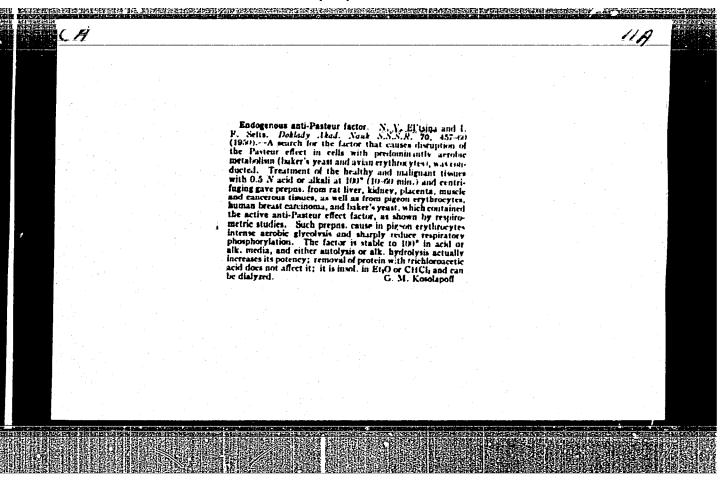
YEL'ITSINA, N. V.

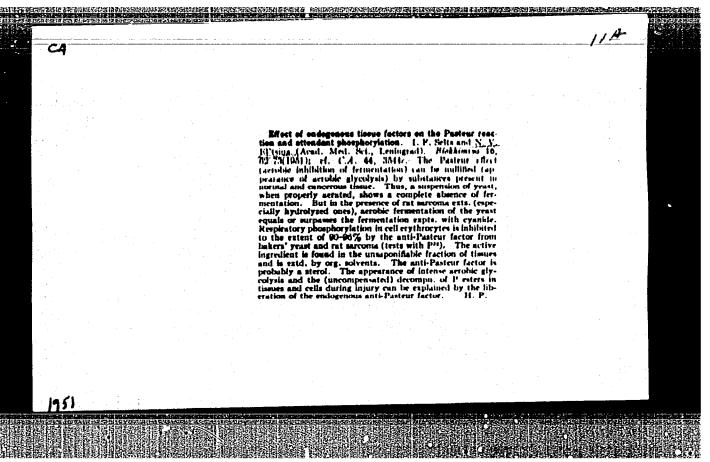
Yel'Itsina, N. V. "The adenosine triphosphate activity of tumors and normal tissues,"

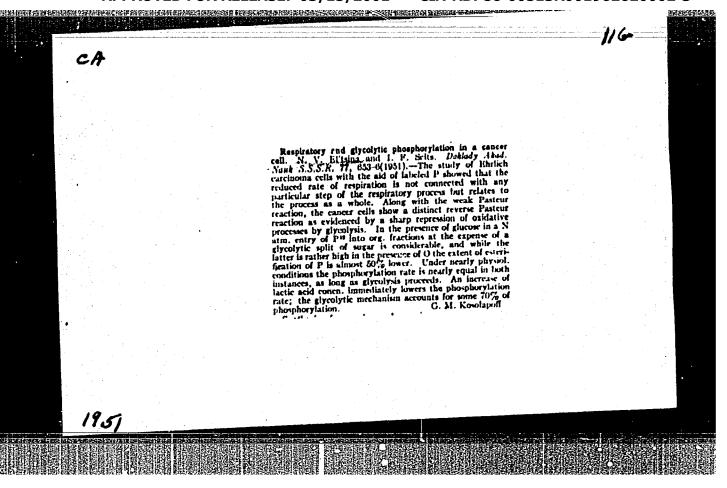
Trudy Akad. ned. nauk SSSR, Vol. 1, 1919, p. 28h-91--Bibliog: } items.

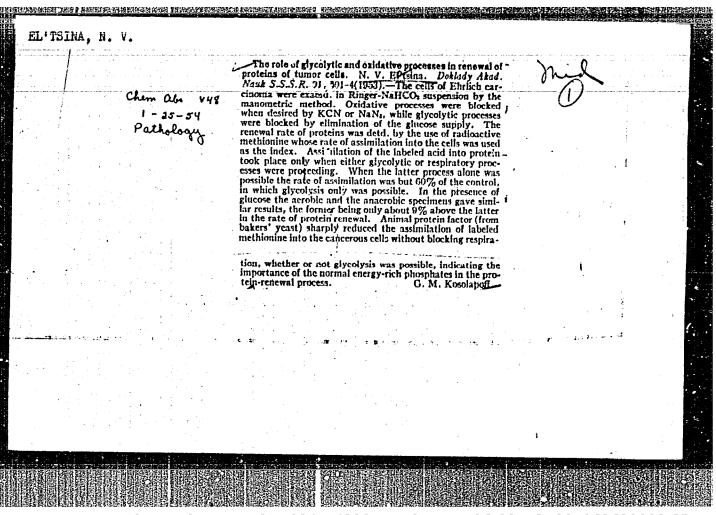
Trudy Akad. ned. nauk SSSR, Vol. 1, 1919, p. 28h-91--Bibliog: } items.

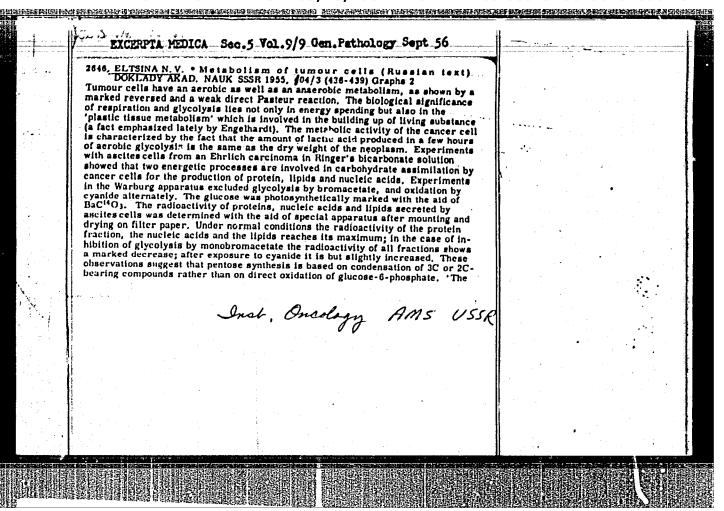
SO: U-h11, 17 July 1953, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1919)

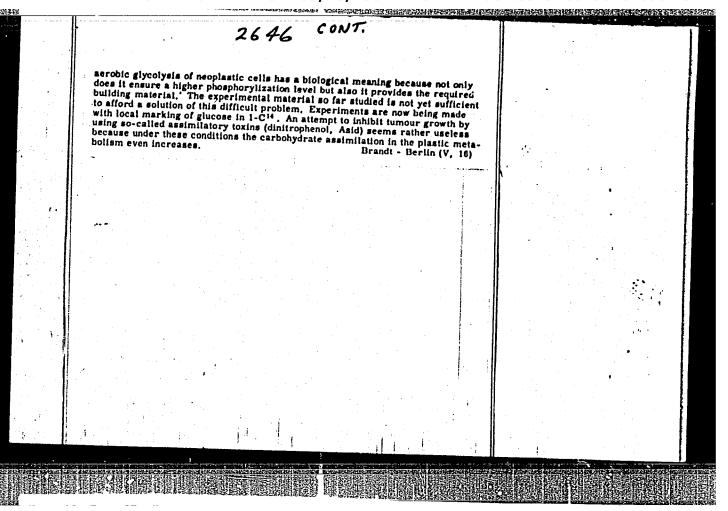












WSSK / General Problems of Pathology. Tumors.

U

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41987.

Author

Yel'tsina, N. V.

Inst

: Not given.

Title

: Restitution of Phosphorus Compounds in Tumor

Tissue Under the Effect of X-rays.

Orig Pub: Vopr. onkologii, 1956, 2, No 3, 312-315.

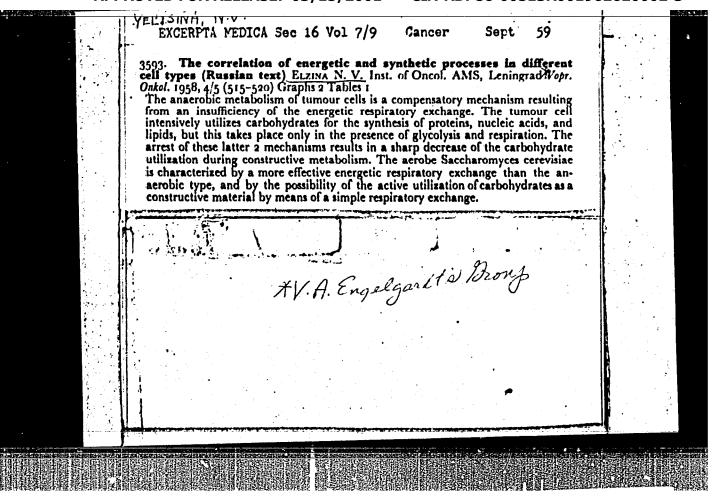
Abstract: As a result of irradiation of mice with Erlich's

carcinoma, with 1000 r, a decrease of inclusion in vivo of 60% of P32 into Desoxyribonucleic acid of the tumor occurred within the first 24 hours. Inclusion into ribonucleic acid and phos-

pholipids is inhibited to a lesser degree. --G. P. Georgiyev.

Card 1/1

Engelgast'a group, & Raengens-Radiology Dept. Soul Oxcology - Acad Medical Sci USSR



TEL'TS INA, H.V., ENGEL'GARDT, V.A.

Pathways of cabohydrate introduction in plastic metabolism of cancer cells [with summary in English] Biokhimita 23 no.31468-492 My-Je '58 (MIRA 11:8)

1. Institut eksperimental'noy terapii raka AME SSSR, Moskva.

(CARBOE metabolism, cancer cell (Rus))
(MEOPLASUS, metabolism, carbon (Rus))

Once the description of the content of

YELITSINA, N.V.

Energy metabolism of cancer cells. Biokhimiia 25 no.1:135-142 Ja-F 160. (MIRA 13:6)

1. Institute of Experimental and Clinical Oncology, Academy of Medical Sciences of the U.S.S.R., Mescow. (NEOPIASMS metab.)

YELTSINA, N. V., and VERESOTSKAYA, N. A. (USSR)

"Machanisms for Maintenance of the ATP Level in the Cancer Cell."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

39232 S/218/62/027/003/004/005 1018/1218

27 1100

Yel'tsina, N. V. and Veresotskaya, N. A.

AUTHOR:

The effect of deoxyglucose on tumor cells

TITLE:

Biokhimiya, v. 27, no. 3, 1962, 452-457

TEXT: The product Deoxyglucose + ATP + hexokinase ± APP + 2-deoxyglucos-6-phosphate does not undergo any further metabolism which may result in a gain of ATP. Thus, glycolytic phosphorylation is arrested. Under these conditions, only oxidative phosphorylations is feasible. However, the ATP formed by mitochondria can also be trapped by the hexokinase which in tumor cells is located on the surface of mitochondria. In the presence of deoxyglucose the two types of phosphorylation may be eliminated. The addition of 2-deoxyglucose to tumor cells of various strains (Saidel hepatoma, cancer of rat ovary, Ehrlich carcinoma) resulted in a disappearance of ATP, decrease in ADP and accumulation of AMP. The sharp decrease in the ATP/ADP ratio was due to a marked decrease in the concentration of inorganic phosphorus in the mitochondria, and depletion in ATP used up in the phosphorylation of 2-deoxyglucose. This led to a complete cessation of oxidative phosphorylation in tumor cells. On the other hand, deoxyglucose was almost without any effect on oxidative phosphorylation in normal liver and kidney sections. It was assumed that the difference in action of deoxyglucose on tumor and normal tissue was due to the different activity and location of hexokinase in both kinds of cells. Treatment of tumors with deoxyglucose could be attempted

Card 1/2

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The effects of ...

only after elimination of the competetive action of glucose. Treatment of tumors with deoxyglucose should be attmepted by regional perfusion of the antimetabolite, with the exclusion of glucose from the tumor tissue.

ASSOCIATION: Institut e'ksperimental'noi i klinicheskoi onkologii Akademii meditsinskikh nauk SSSR.

(Institute of Experimental and Clinical Cancer Research Academy of Medical Science

USSR, Moscow)

SUBMITTED:

October 9, 1961

Card 2/2

YEL'TSOV, A.I. (Vologda)

Lebesgue squarability of a certain type of parametrized ruled surfaces. Izv.vys.ucheb.zav.; mat. no.6:85-92 (MIRA 19:1)

1. Submitted May 13, 1964.

TEL TSOV, A.I.

Some data on the treatment of peptic ulcer in children in the children's sanatorium at "Ozero Shira." Vop.okh.mat. i det. 4 no.6: (MIRA 13:4)

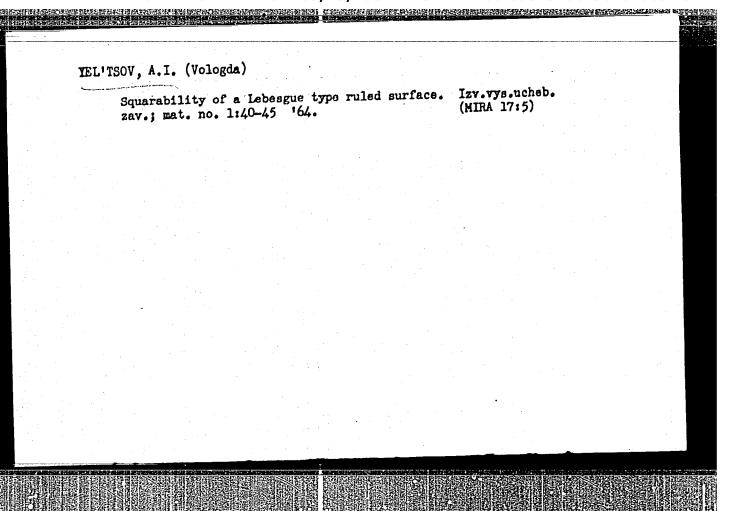
1. Iz detskogo sanatoriya "Ozero Shira" (glavnyy vrach A.I. Yel'tsov)
i iz kafedry fakul'tetskoy pediatrii Tomskogo meditsinskogo instituta
(zaveduyushchiy - prof. A.F. Smyshlyayeva).
(PEPTIC ULCER) (SHIRA, LAKE--CHILDREN--HISPITALS)

YEL'TSOV, A.I.; NEYLAND, E.A.; KOLESNIKOVA, Ye.N.

Treatment of children with diabetes mellitus at the Yessentuki "Lunost" sanatorium. Vop. okh. mat. i det. 6 no.8:26-28 Ag '61.

1. Iz Yessentukskogo detskogo sanatoriya "Yunost'" (glavnyy vrach A.I.Yel'tsoy) Severo-Kavkazskogo zonal'nogo upravleniya spetsiali - zirovannykh sanatoriyev Ministerstva zdravookhraneniya RSFSR (nach. G.I.Kazachok).

(YESSENTUKI_DIABETES)



USSR/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour

Ref Zhur - Khimiya, No 9, 1957, 30330

Author

Alekseyevskaya, N.V., Grigor'yev, V.B., Yel'tsov, A.V. Leningrad of Chromium Hydroxide with Hydrogen Peroxide.

Inst Title Orig Pub

: Interaction of Chromium Hydroxide With Hydrogen Peroxide. : Sb. stud. rabot Leningr. tekhnol. in-t im. Lensoveta.

L., 1956, 18-21

Abst

Study of changes in properties of chromogel (I) on thermal treatment and catalytic decomposition of H202 by specimens of I, prepared under different conditions. It was found that evolution of hygroscopic moisture ceases at 170°, and at 320° I changes from amorphous to crystalline state. Specific surface of \underline{I} , determined by the RET method, increases with temperature of the thermal treatment, reaches a maximum at 200 and decreases thereafter. At beginning of interaction of I with H, O, the solution acquires a violet coloration due to formation of H_CrOy. When little H₁O₂ is left a vigorous reaction sets in, O₂

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CIA-RDP86-00513R001962620002-3"

APPROVED FOR RELEASE: 03/15/2001

USSR/Inorganic Chemistry - Complex Compounds.

c.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30330

is emitted together with water vapor and color of the solution changes to yellow. Rate of catalytic decomposition of H₂O₂ is lowered with increasing temperature of the thermal treatment of <u>I</u>. The samples of <u>I</u> treated at 300° constitute an exception and show the highest activity, which is apparently associated with the state of transition from amorphous to a crystalline structure.

Card 2/2

AUTHORS:

Yelrsoy, AV.
Efros, L. S., and Yel'tsov, A. V.

463

TITLE:

Investigation of Imidazole Derivatives. Part 15. Nitration of Benzimidazolone and 1,3-dimethylbenzimidazolone (Issledovaniye v oblasti proizvodnykh imidazola. XV. Nitrovaniya benzimidazolona i 1,3-dimetilbenzimidazolona)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 127-135 (U.S.S.R.)

ABSTRACT:

Because of the absence of systematic investigations on imidazole derivatives the authors began with the study of the nitration reaction of benzimidzolone and found that at very soft conditions (at 0° and with equimolecular amount of nitric acid) benzimidazolone dissolved in concentrated sulfuric acid easily forms good yields of 5-nitrobenzimidazolone. This product was identified with the one obtained by the Kym-Rattner (2) prescription from 1,2-diamino-4-nitrobenzene and urea. The product (4-nitrobenzimidazolone) derived from urea and 1,2-diamino-3-nitrobenzene could not be separated from the reaction products. It is evident that direct nitration of benzimidazolone does not yield great amounts of this product which is in good conformity with the general properties of benzimidazolones. Trinitro- and tetranitro derivatives of benzimidazolone and 1,3-dimethylbenzimidazolones in cold state

Card 1/2

Investigation of Imidazole Derivatives. Part 15.

substitute their mobile nitro groups with aniline radicals. The analogy in the nitration reaction tendency of benzimidazolone and 1,3-dimethylbenzimidazolone on one hand and other benzimidazole derivatives on the other hand confirms a previous hypothesis by L. S. Efros (4) regarding the formation by the benzimidazolones and their analogues in a strong acid medium of cations as result of addition of the proton from the medium to the oxygen atom and it shows the incompetence of the statement that the benzimidazolone enters into reaction in tautomeric form of 2-oxybenzimidazole. One list of chemical formulas. There are 5 references, of which lis Slavic.

ASSOCIATION:

The Leningrad Technological Institute im. Lensovet (Leningradskiy Tekhnologicheskiy Institut im. Lensoveta).

PRESENTED BY:

SUBMITTED:

January 30, 1956

AVAILAHE:

Card 2/2

CIA-RDP86-00513R001962620002-3 "APPROVED FOR RELEASE: 03/15/2001

YEL TOOK HIV.

AUTHORS:

Venus-Danilova, E. D.; Serkova, V. I.; Yel'tsov, A. V. 79-2-13/58

TITLE:

Study of Pinacol Conversions with Substituted Acetylene Radicals, Part 14. Synthesis and Conversions of Nonsymm. Methyl-Diphenyl-Tertiary-Butylace tylenyl-Ethylene Glycol (1,1-Diphenyl-2,5,5-Trimethylhexine-3-diol-1,2) (Issledovaniye prevrashcheniy pinakonov s zameshchennymi atsetilenovymi radikalami. XIV, Sintez i prevrashcheniye nesimm.metil-difenil-tretichnobutilatectilenil-etilenglikolya (1,7-difenil-2,5,5-trimetil-geksin-3-

diol-1,2).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No. 2, pp. 334-339 (U.S.S.R.)

ABSTRACT:

The authors synthesized a new representative of acetylene series pinacols of nonsymmetrical methyl-diphenyl-tertiary-butylacetylenyl-ethyleneglycol and showed that this pinacol when heated with a 41.5% aqueous solution of sulfuric acid converts into enin alcohol - 1,1-diphenyl-2-methylene-5.5 dimethylhexine-3-01-1. The effects of different sulfuric acid concentrations on nonsymmetrical ethylene glycols are described. The structure of the enin alcohol - 1.1-diphenyl-2-methylene-5,5-dimethylhexine-3-01-1 was

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79-2-13/58
Study of Pinacol Conversions with Substituted Acetylene Radicals.
Part 14.

proven during its oxidation and derivation of benzophenone, benzilic, formic and trimethylacetic acids. It was revealed that the reaction of the alcohol solution of nonsymmetrical methyl-diphenyl-tertiary-butylacetylenyl-ethylene glycol with 2,4-dinitrophenylhydrazine in the presence of sulfuric acid leads to the formation of 2,4-dinitrophenylhydrazone, corresponding to isomeric ethylene gamma-katoalcohol-l,1-diphenyl-2,5,5-trimethylehexene-2-Ol-l-on-4. There are 19 references, of which 17 are Slavic

ASSOCIATION:

Leningrad Technological Institute imeni Leningrad Soviet

PRESENTED BY:

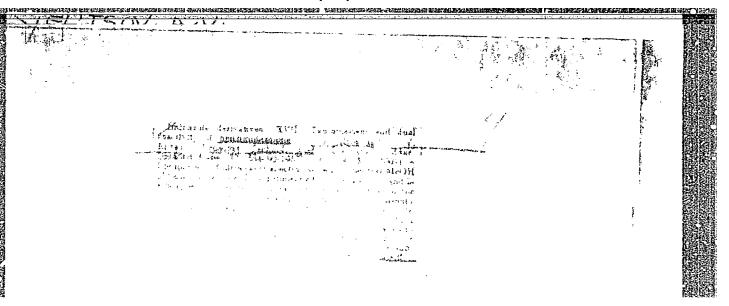
SUBMITTED:

March 24, 1956

AVAILABLE:

Library of Congress

Card 2/2



AEF, LZOA, M, A,

AUTHORS:

Efros, L. S., Yel'tsov, A. V. 79-1-14/63

TITLE: Investigations in the Field of Imidazole Derivatives (Issledovaniye v oblasti proizvodnykh imidazola) XVIII. On the

Problem of the Nitration of 5-Methylbenzimidazole (XVIII. K voprosu o nitrovanii 5-metilbenzimidazola)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 62-69(USSR)

ABSTRACT: In the investigation of the chemical properties of the benzimidazole derivatives the authors absolutely needed 5-methyl-

-6-nitrobenzimidazole (formula IV) with the exactly determined position of the substituents. Their attempts to start from

APPROVED FOR RELIGASE 103/15/20014-diGIA-RDP86:190513R901962620002-3

For this reason a detour was made. By the treatment of an amine mixture with hydrogen sulfide in potassium alcoholate they obtained a 5-methyl-6-nitro-2-mercaptobenzimidazole (formula II) which could with permanganate in an alkaline medium very easily be oxidized to sulfo acid (III) which was then

Card 1/3 with hydrochloric acid converted to the expected benzimida-

Investigations in the Field of Imidazole Derivatives. XVIII. On the Problem of the Nitration of 5-Methylbenzimidazole

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zole derivative (IV). On boiling of the mixture, obtained with formic aid, of the reaction products of 2,4-dinitro-5... -methylaniline the authors with a 65 % yield obtained a compound which had a melting point of 197°C and which according to the elementary analysis is identical with methylnitrobenzimidazole, and which accordingly had to possess the structure of 5-methyl-6-nitrobenzimidazole (X). The latter was also synthesized by Fischer and Heß by nitration of 5-methylbenzimidazole (V) with a melting point of 241°C, which contradicted the finding of the authors. After a repetition and closer examination of Fischer's and Heß! experiments the authors succeeded in proving that in their nitration with 5-methylbenzimidazole not 5-methyl-6-nitrobenzimidazole, but 4- and 6-mononitro derivatives in the ratio 5,7: 4,3 were obtained. It was found that the product with a melting point of 240°C synthesized by Fischer and HeB was a 5-methyl-4--nitrobenzimidazole, but no 6-nitro derivative, as they had stated. There are 2 figures, and 7 references, 2 of which are Slavic.

Card 2/3

Investigations in the Field of Imidazole Derivatives. XVIII. On the Problem of the Nitration of 5-Methylbenzimidazole

ASSOCIATION: Ieningrad Technological Institute imeni Iensovet

(Leningradskiy tekhnologicheskiy institut in. Lensoveta)

SUBMITTED: December 16, 1956

AVAILABLE: Library of Congress

Card 3/3 1. Chemistry 2. Nitro compounds 3. Chemical analysis

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YEL TSOU 17. V

75-2-35/54

AUTHORS:

Efros, L. S., Yel'tsov, A. V.

TITLE:

Research in the Field of Imidazol Derivatives (Issledovaniye v

oblasti proizvodnykh imidazola)

XIX. Aminoderivatives of the Benzimidazolon and 1,3-Dimethylben-zimidazolon (XIX. Aminoproizvodnyye benzimidazolona i 1,3-dimetil-

benzimidazolona)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 441 - 447 (USSR)

ABSTRACT:

It was shown already earlier that benzimidazolon (I) and its N,N'-dimethylderivatives in highly acid medium differ neither according
to their reactivity nor in their absorption spectrum from benzimidazolonderivatives. Hence is concluded that in salt formation the
proton is added to the carbonyl oxygen and forms a cation. In the
neutral medium (I) is in the o-phenylcarbanide form, and i's heteroring differs from that of imidazol. In connection with this
the influence of the imidazolring on the condensation with a benzenering was investigated in the present paper, and the detection
of the deformation character of the cloud of electrons in the latter was attempted. For this purpose the isomers of the 4- and 5-aminoderivatives of the benzimidazolon were investigated as well
as of its 1,3-dimethylderivative. From the investigation is assumed

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79-2-36/64

Research in the Field of Imidazol Derivatives. XIX. Aninoderivatives of the Benz-imidazolon and 1,3-Dimethylbenzimidazolon

that the double binding between the 5th and 6th carbon atom is to a great extent enlarged in the 5-aminobenzimidazolon as well as in its 1,3-dimethylanalogous. This leads to the nitrogenization at the 6th carbon atom (as was found experimentally). If this assumption is right, an analogous deformation of the cloud of electrons is bound to occur in the benzene core of the unsubstituted benzimidazolon nucleus, or the different reaction properties of the 5-aminobenzimidazol and 5-aminobenzimidazolon would be difficult to explain. The configuration disturbance of this kind is worth mentioning since it has not yet been observed, except the data on the hydrides which were found to be wrong of late. Preparative details as well as specific data of the compounds are given. There are 1 figure, 1 table, and 8 references, 4 of which are Slavic.

ASSOCIATION:

Tachnological Institute imeni Lensovet, Leningrad (Leningradskiy

tekhnologicheskiy institut in. Lensoveta)

SUBMITTED:

March 11, 1957

AVAILABLE:

Library of Congress

Card 2/2

AUTHORS: Efros, L. S., Yel'tsov. A. V. 79-28-4-21/60 TITLE: Investigations in the Field of Imidazol Derivatives (Issledovaniye v oblasti proizvodnykh imidazola). XX. Some Amino Derivatives of Benzimidazolone (XX. Nekotoryye aminoproizvodnyye benzimidazolona) PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 941-945 (USSR) ABSTRACT: In investigating the chemical properties of amino derivatives of benzimidazolone (I) the authors found, that the aro--binding of 5-aminobenzimidazolone with diazized aniline takes place at the 6th carbon atom. (II). 5-amino-1,3-dimethylbenzimidazolone behaves in a similar way: NH2 Card 1/3 (I)(II)

自然的主义,因为他们是自然的对象。 第一个人们的主义,但是他们们的对象的对象。

Investigations in the Field of Imidazol Derivatives. XX. Some Amino Derivatives of Benzimidazolone

79-28-4-21/60

(III)

On the basis of these facts the authors supposed that the electron shell of the benzene nucleus is deformed in such a way under the action of the imidazolone nucleus, as to markedly strengthen the double binding between the 5th and the 6th carbon atom. In order to determine the degree of this deformation, two aminobenzimidazolones were synthesized and the interaction of this substances with diazonium salts was observed, whereby in one of these position 6 and in the other position 4 was blocked by methylgroups. It was found, that the 5-amino-6-methylbenzimidazolone cannot enter into the reaction of the azo-binding. The 5-amino-4,7-dimethylbenzimidazolone, however, reacts with diazo compounds and forms azo dyes. These observations prove the earlier drawn con-

Card 2/3

Investigations in the Field of Imidazol Derivatives . XX. Some Amino Derivatives of Benzimidazolone

79-28-4-21/60

clusion, that in the molecule of benzimidazolone the double bond of positions 5 and 6 is strengthened and the double bond of positions 4 - 5 and 6 - 7 is weakened under the influence of the nonaromatic imidazolone nucleus. There are 8 references, 3 of which are Soviet.

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Institute for Technology imeni Lensovet)

SUBMITTED:

March 11, 1957

Card 3/3

AUTHORS:

Efros, L. S. Yel'tsov, A. V.

SOV/79-28-8-37/66

TITLE:

Some Aminoderivatives of the Piaselenole (Nekotoryye

aminoproizvodnyye piazselenola)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8,

pp. 2172 - 2174 (USSR)

ABSTRACT:

Recently, L.S. Efros (Ref 2) found that the 5-aminopiaselenole (Formula II) is capable of entering into an azo developing. For the resulting azo compound the structure (III) had been suggested, derived from structure (I). In order to substantiate this suggested azo developing of the 5-amino piaselenole the authors synthesized the amines (IV) and (V), in one of which the positions 4 and 7, in the other the position 6 are blocked by methyl groups. Both amines were obtained by the combination of the aqueous solutions of the hydrochlorides of the corresponding substituted triaminobenzenes and of sodiumselenite. Besides, the nitro compounds (VI) and (VII) were characterized which are easily formed from the corresponding ortho-diamines and selenium dioxide. The

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1,2,4-triamine-3,6-dimethylbenzene, hitherto unknewn and

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Some Aminoderivatives of the Piaselenole

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necessary for the synthesis of compound (IV), was obtained by reduction of the trinitro-p-xylene with tin in hydrochloric acid. It was proved that the 5-amino-6-methylpiaselenole (V) easily enters into an azo developing reaction with the salts of the aryldiazonium. The dye (VIII), gained from (V) and diazotized 2,5-dichloro aniline, was described. With 5-amino-4,7-dimethylpiaselenole (IV) an azo developing was failing, as expected. The results hardly allow to doubt the suggested structure of the azo dye (IV) and suggest a quinoidine structure of the piaselenole (I), a piaselenole with a double-bond between the 5-4 and the 6-7 carbon atoms. The incapability of the compound (IV) to form an azo developing points to the accuracy of the assumption that the entrance of the azo group into the 5-aminopiaselenole occurs at the fourth carbon atom. There are 7 references, 4 of which are Soviet.

Card 2/3

CIA-RDP86-00513R001962620002-3 "APPROVED FOR RELEASE: 03/15/2001

Some Aminoderivatives of the Piaselenole

sov/79-28-8-37/66

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta

(Leningrad Technological Institute imeni Lensovet)

SUBMITTED:

July 4, 1957

Card 3/3

CIA-RDP86-00513R001962620002-3" APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962620002-3 "APPROVED FOR RELEASE: 03/15/2001

AUTHORS:

Efros, L. S., Yel'tsov, A. V.

sov/79-28-8-38/66

TITLE:

Investigations in the Field of Imidazole Derivatives (Issledovaniye v oblasti proizvodnykh imidazola)XXI.Synthesis and Properties of the Imidazolone Imidazolobenzenes (XXI. Sintez

i svoystva imidazolonoimidazolobenzolov)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8,

pp. 2174 - 2178 (USSR)

ABSTRACT:

The previously investigated dimidazole benzenes (Formula I) approached, as far as their chemical properties are concerned, the anthracene derivatives (Ref 1): on oxidation they formed quinones, on halogenation dihalogen derivatives; their nitration yielded mononitro compounds. In the case of compound (I) the influence of aromatic imidazole rings on the central benzene nucleus the meso-positions of which become unsaturated, plays an important role. The authors assume (Refs 2,3) that the electron cloud of the benzimidazolone, as contrasted with benzimidazole (II), is so deformed that the double-bond character between the 5 and 6 carbon atoms increases (III). It was interesting to investigate the properties of compounds in which the benzene ring

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Investigations in the Field of Imidazole Derivatives. SOV/79-28-8-38/66 XXI. Synthesis and Properties of the Imidazolone Imidazolobenzenes

could be condensed both with imidazole and imidazolone hetero-rings. On the treatment of the 5,6-diamino-benzimidazolone and its 1,3-dimethyl analogs with formic and acetic acid the compounds (IV), (V) and, correspondingly, (VI), (VII) were synthesized (Refs 4,5). The ortho-diamines readily offer themselves as initial products on fusion with urea, yielding the compounds (VIII) and (IX), hithcrto unknown, the properties of which shall be subjected to further studies. The oxidation-, bromination- and nitration reactions of the derivatives of the 1,2-imidazolone-4,5-imidazole benzene were investigated. Their higher reactivity as compared with the derivatives of 1,2,4,5-diimidazole-benzene became evident. There are 5 references, 3 of which are Soviet.

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

Card 2/3

Investigations in the Field of Imidazole Derivatives. SOV/79-28-8-38/66 XXI. Synthesis and Properties of the Imidazolone Imidazolobenzenes

SUBMITTED: July 4, 1957

Card 3/3

YEL'TSOV, A. V. Cand Chem Sci -- "Structure of cubosols and their affinity with cotton."

Len, 1960 (Len State Ped Inst im A. I. Gertson. Chair of Organic Chemistry)

(KL, 1-61, 182)

-53-

YEL'TSOV, A.V.; EFROS, L.S.; GLIBIN, Ye.N.

Imidazole derivatives. Part 25: 4, 5-dimethoxy derivatives of benzimidazolinone. Zhur.ob.khim. 31 no.5:1581-1585 My '61.

(MIRA 14:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Benz imidazolinone)

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YEL'TSOV, A.V.; ABOZIN, V.G.

Study of the substantive properties of vat sols. Report No. 1: Dyeing of cotton with indigosol 04B and indigosol Orey C. Trudy LTI no.60:159-166 160. (MIRA 14:6)

 Kafedra tekhnologii organicheskikh krasiteley Leningradskogo tekhnologicheskogo instituta imeni Lensoveta. (Dyes and dyeing--Cotton) (Indigo)

YEL'TSOV, A.V.; ABOZIN, V.G.

Study of the substantive properties of vat sols. Report No.2: Equilibrium sorption by cotton of some indigosols, of anthrasol Yellow V, and of the vat sol Gold-Yellow ZhKh. Trudy LTI no.60: 167-182 '60. (MIRA 14:6)

1. Kafedra tekhnologii organicheskikh krasiteley Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.

(Dyes and dyeing--Cotton)

Study of the substantive properties of vat sols. Report No. 3:
Equilibrium dyeing of cotton with N-methyl derivatives of the indigosols 04B and Grey C. Trudy LTI no.60:183-189 '60.

1. Kafedra tekhnologii krasyashchikh veshchestv Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.

(Dyes and dyeing--Cotton)

EL'TSOV, A.V.; EFROS, L.S.

Imidazole derivatives. Part 23: 5,6-Dioxo derivatives of benzimidazolone. Zhur.ob.khim. 30 no.10:3319-3324 0 '61. (MIRA 14:4)

l. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Benzimidazole)

YEL'TSOV, A.V.; EFROS, L.S.

Imidazole derivatives. Part 24: Synthesis and oxidation of 5-chloro-6-methoxybenzimidazolone. Zhur. ob. khim. 31 no.4:1215-1218 Ap '61. (MIRA 14:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Benzimidazolinone)

YEL'TSOV, A.V.; EFROS, L.S.

Derivatives of imidazole. Part 26. Zhur.ob.khim. 31 no.12:3994-4001 D *61. (MIRA 15:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Imidazole)

YEL'TSOV, A.V.; EFROS, L.S.

Derivatives of imidazole. Part 27. Zhur. ob. khim. 32 no.1:196-199 Ja '62. (MIRA 15:2)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Imidazole)

KUZNETSOV, S.G.; YEL'TSOV, A.V.

Some new aminoalkyl esters of benzilic acid. Zhur.ob.khim. 32 no.2:511-515 F '62. (MIRA 15:2)

1. Institut toksikologii AMN SSSR, Leningrad. (Benzilic acid)

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1		Derivatives Ap 163.	of	imidazole (Im	. Pari	29.	Zhur.ob.khim.	33 no.4:13 (MIRA 16:5)	27 - 1334	
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YEL'TSOV, A.V.

Oga compounds. Part 1. Zhur.ob.khim. 33 no.6:2006-2011 Je
(HIRA 16:7)

(Benzodioxan) (Oxidation)

YEL'TSOV, A.V.; KUZNETSOV, V.S.; EFROS, L.S.

Derivatives of imidazole. Part 31. Zhur.ob.khim. 34 no.1:197-201 Ja 164. (MIRA 17:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

YEL'TSOV, A.V.; KUZNETSOV, V.S.; EFROS, L.S.

Derivatives of imidazole. Part 3. Zhur.ob.khim. 33 no.12:3965-3972 D '63. (MIRA 17:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

YEL'TSOV, A.V.

Oxa compounds. Part 3. Zhur. cb.knim. 34 nc. 5:1622-1624 My *64. (MIRA 17:7)

YEL'TSOV, A.V.; ZAKHS, E.R.; EFROS, L.S.

Derivatives of imidazole. Fart 36. Zhur. ob. khim. 34 no.ll: 3738-3741 N *64 (MIRA 18:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

YEL'T	rsov, A.V.	
	Oxa compounds. Part 5. Zhur. org. khim. 1 no.6:1112-1117 Je '65. (MIRA 18:7)	
	1. Institut onkologii AMN SSSR, Leningrad.	
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YEL'TSOV, A.V.; KUZNETSOV, V.S.; KOLESOVA, M.B.

Formation of a condensed imidazolone ring. Zhur. org. khim. 1 no.6: 1117-1121 Je '65. (MIRA 18:7)

. 1. Institut onkologii AMN SSSR, Leningrad.

AUTHOR: Yel'tsov, A. V.; Muravich-Aleksandr, Kh. L. TITLE: 1,2-Dihydro derivatives of benzimidazole. Part 2. SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 9, 1965, 1673-1677 TOPIC TAGS: amine, aldehyde, condensation reaction, UV spectrum, IR spectrum, hydrogen ion ABSTRACT: The authors found that both N,N'-tetramethylene- and N,N'-pentamethylene-o-phenylenediamines bondense very readily with aldehydes, whereas di- and trimethylene-o-phenylenediamines do not condense with aldehydes. The 1,3-polymethylene-1,2-dihydro derivatives (A) obtained differ markedly in chemical properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B).				·	
SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 9, 1965, 1673-1677 TOPIC TAGS: amine, aldehyde, condensation reaction, UV spectrum, IR spectrum, hydrogen ion ABSTRACT: The authors found that both N,N'-tetramethylene- and N,N'-pentamethylene-o-phenylenediamines condense very readily with aldehydes, whereas di- and trimethylene-o-phenylenediamines do not condense with aldehydes. The 1,3-polymethylene-1,2-dihydro derivatives (A) obtained differ markedly in chemical properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B).	1871-66 EWT(m)/EPF(c)/EWP(CCESSION NR: AP5022535	UR/03	66/65/001/009/167 3/	1677 22 B	
SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 9, 1965, 1673-1677 TOPIC TAGS: amine, aldehyde, condensation reaction, UV spectrum, IR spectrum, hydrogen ion ABSTRACT: The authors found that both N,N'-tetramethylene- and N,N'-pentamethylene-o-phenylenediamines condense very readily with aldehydes, whereas di- and trimethylene-o-phenylenediamines do not condense with aldehydes. The 1,3-polymethylene-1,2-dihydro derivatives (A) obtained differ markedly in chemical properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B).	AUTHOR: Yel'tsov, A. V.; Muravi	ich-Aleksandr, Kh. L			
SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 9, 1965, 1673-1677 TOPIC TAGS: amine, aldehyde, condensation reaction, UV spectrum, IR spectrum, hydrogen ion ABSTRACT: The authors found that both N,N'-tetramethylene- and N,N'-pentamethy- lene-o-phenylenediamines condense very readily with aldehydes, whereas di- and trimethylene-o-phenylenediamines do not condense with aldehydes. The 1,3-poly- methylene-1,2-dihydro derivatives (A) obtained differ markedly in chemical properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B).					
TOPIC TAGS: amine, aldehyde, condensation reaction, UV spectrum, IR spectrum, hydrogen ion ABSTRACT: The authors found that both N,N'-tetramethylene- and N,N'-pentamethylene-o-phenylenediamines condense very readily with aldehydes, whereas di- and trimethylene-o-phenylenediamines do not condense with aldehydes. The 1,3-polymethylene-1,2-dihydro derivatives (A) obtained differ markedly in chemical properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B).	· · · · · · · · · · · · · · · · · · ·				
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methylene-1,2-dihydro derivatives (A) obtained differ harkedly in properties and spectral characteristics from 1,3-dimethyl-1,2-dihydro derivatives (B). NH (CH)	hydrogen ion ABSTRACT: The authors found th lene-o-phenylenediamines conden	at both N,N¹-tetrame se very readily with	thylene- and N,N'- aldehydes, wherea	pentamethy- s di- and 1,3-poly-	
(B). $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{H} CH_0 $ $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{H} CH_0 $ $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{N} CH_0 $ $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{N} CH_0 $ $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{N} CH_0 $ $ \bigcap_{NH} (CH_0)_n \circ \bigcap_{H} C - A_{P} \longrightarrow \bigcap_{N} (CH_0)_n C \subset \bigcap_{N} CH_0 $					
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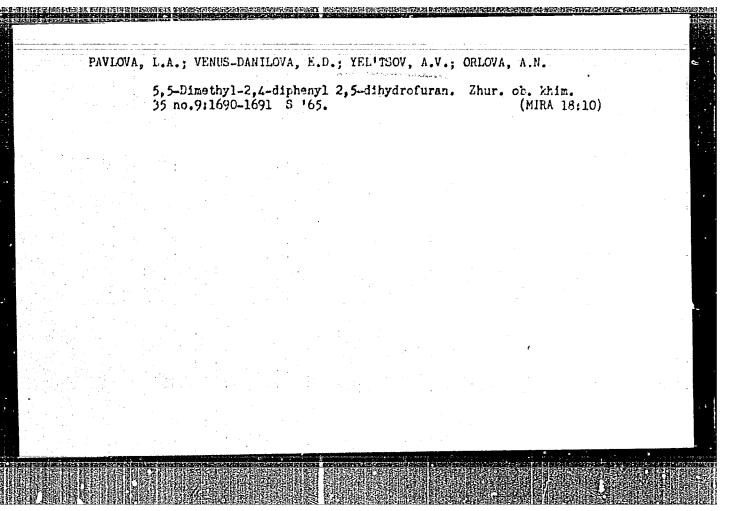
These differences are due to three factors: (1) Because of polarization according to the formula CH, (C) a partial negative charge should be concentrated on the carbon atom in the 2- position; the hydride mobility depends on the magnitude of this charge. (2) The hydride exchange reaction occurs in the reaction complex; because of steric hind- rance, solvation and the approach of the reagent to the 2-position of the molecule may be difficult. This is indicated by the greater ease of acid hydrolysis in the case of type (B) compounds. (3) The detachment of the hydride ion from type (A) compounds should be accompanied by the formation of 1,3-penta- or tetramethylenimi- dazolinium salts. It is postulated that the first and third factors cease to be valid when the carbon chain joining the nitrogen atoms in type (A) compounds is long enough. UV and IR spectra of the derivatives obtained are illustrated. Orig. art. has: 3 figures and 1 table.	L 1871-66 ACCESSION NR: AP5022535				07		
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TITLE: Improvement of the quality of electroslag-melted ball-bearing steel

SOURCE: Stal', no. 7, 1964, 640-642

TOPIC TAGS: ball bearing steel, electroslag melted steel, high purity steel, steel electroslag melting

ABSTRACT: Several variants of electroslag melting have been tested in an attempt to improve the quality of ball-bearing steel. The analysis of electroslag-melted steel showed that nitrides and carbonitrides constitute the greatest part (up to 75%) of the nonmetallic inclusions present in the steel. These nitrides derive from the initial material. The electroslag process eliminates large nitrides over 20µ in diameter, but does not eliminate the smaller ones.